UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

NOTICE OF ALLOWANCE AND FEE(S) DUE

25006

7590

12/28/2004

GIFFORD, KRASS, GROH, SPRINKLE ANDERSON & CITKOWSKI, PC 280 N OLD WOODARD AVE SUITE 400 BIRMINGHAM, MI 48009 **EXAMINER**

DOERRLER, WILLIAM CHARLES

ART UNIT

PAPER NUMBER

3744

DATE MAILED: 12/28/2004

1	APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
	10/706,550	11/12/2003	Tony L. Shearer	PST-10902/36	6907

TITLE OF INVENTION: SENSORLESS CONTROL OF A HARMONICALLY DRIVEN ELECTRODYNAMIC MACHINE FOR A THERMOACOUSTIC DEVICE OR VARIABLE LOAD

APPLN. TYPE	SMALL ENTITY	ISSUE FEE	PUBLICATION FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	YES	\$700	\$300	\$1000	03/28/2005

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. <u>PROSECUTION ON THE MERITS IS CLOSED</u>. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE REFLECTS A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE APPLIED IN THIS APPLICATION. THE PTOL-85B (OR AN EQUIVALENT) MUST BE RETURNED WITHIN THIS PERIOD EVEN IF NO FEE IS DUE OR THE APPLICATION WILL BE REGARDED AS ABANDONED.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

- II. PART B FEE(S) TRANSMITTAL should be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). Even if the fee(s) have already been paid, Part B Fee(s) Transmittal should be completed and returned. If you are charging the fee(s) to your deposit account, section "4b" of Part B Fee(s) Transmittal should be completed and an extra copy of the form should be submitted.
- III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail

Mail Stop ISSUE FEE Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

(703) 746-4000 or <u>Fax</u>

	espondence including the P elow or directed otherwise	ntant advance are	tere and notification	ot maintenance tees t	nired). Blocks 1 through 5 sl will be mailed to the current c; and/or (b) indicating a sepa	correspondence address as	
CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address) Note: A certificate of mailing can only be used for domestic mailing Fee(s) Transmittal. This certificate cannot be used for any other accordance papers. Each additional paper, such as an assignment or formal draw						or any other accompanying	
25006 75			have its own certificat	te of mailing or transmission.	Ç. 12 =		
GIFFORD, KRASS, GROH, SPRINKLE				Ce	rtificate of Mailing or Trans	mission	
ANDERSON & CI				I hereby certify that t	his Fee(s) Transmittal is being	g deposited with the United	
280 N OLD WOODARD AVE				addressed to the Ma	with sufficient postage for first il Stop ISSUE FEE address	above, or being facsimile	
SUITE 400				transmitted to the USI	PTO (703) 746-4000, on the d		
BIRMINGHAM, M	II 48009					(Depositor's name) (Signature)	
						(Date)	
APPLICATION NO.	FILING DATE	I	FIRST NAMED INVEN	TOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/706,550	11/12/2003		Tony L. Shearer		PST-10902/36	6907	
•		OF A HARMONIO	•		MACHINE FOR A THERMO	DACOUSTIC DEVICE OR	
APPLN. TYPE	SMALL ENTITY	ISSUE FE	EE PU	IBLICATION FEE	TOTAL FEE(S) DUE	DATE DUE	
nonprovisional	YES	\$700	· ··	\$300	\$1000	03/28/2005	
EXAMINER		ART UN	IT CI	ASS-SUBCLASS]		
DOERRLER, WILLIAM CHARLES 374				062-228400			
 Change of correspondence address or indication of "Fee Address" (37 CFR 1.363). Change of correspondence address (or Change of Correspondence 			(1) the names of or agents OR, alter	•	ent attorneys 1		
Address form PTO/SB/122) attached. "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. Use of a Customer Number is required.			(2) the name of a single firm (having as a member a registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is listed, no name will be printed.				
3. ASSIGNEE NAME AND	RESIDENCE DATA TO B	E PRINTED ON T	HE PATENT (print	or type)			
PLEASE NOTE: Unless recordation as set forth in	an assignee is identified be 37 CFR 3.11. Completion of	low, no assignee of this form is NOT	data will appear on t Ta substitute for filin	he patent. If an assig g an assignment.	nee is identified below, the d	locument has been filed for	
(A) NAME OF ASSIGNEE (B) RESIDENCE: (CITY and STATE OR COUNTRY)							
	assignee category or category			☐ Individual ☐ (Corporation or other private gr	oup entity Government	
4a. The following fee(s) are	enciosea:	40	Payment of Fee(s): A check in the amount of the fee(s) is enclosed.				
Issue Fee			Payment by credit card. Form PTO-2038 is attached.				
Publication Fee (No small entity discount permitted)			☐ The Director is hereby authorized by charge the required fee(s), or credit any overpayment, to				
Advance Order - # of Copies			Deposit Account Number (enclose an extra copy of this form).				
a. Applicant claims SI	(from status indicated above MALL ENTITY status. See 1	37 CFR 1.27.			ALL ENTITY status. See 37 C		
The Director of the USPTO NOTE: The Issue Fee and Pointerest as shown by the reco	is requested to apply the Issu ublication Fee (if required) v ords of the United States Pate	e Fee and Publicate vill not be accepted and Trademark	tion Fee (if any) or to I from anyone other t Office.	re-apply any previous han the applicant; a re	sly paid issue fee to the applications gistered attorney or agent; or t	ation identified above. he assignee or other party in	
Authorized Signature			Date				
			Registration No				
This collection of information an application. Confidential submitting the completed apthis form and/or suggestions	in is required by 37 CFR 1.3 ty is governed by 35 U.S.C. plication form to the USPT for reducing this burden, sh	11. The information 122 and 37 CFR O. Time will vary tould be sent to the	n is required to obtai 1.14. This collection depending upon the Chief Information (n or retain a benefit by is estimated to take 12 individual case. Any of Officer, U.S. Patent an	the public which is to file (an minutes to complete, includic comments on the amount of tid Trademark Office, U.S. Dep	d by the USPTO to process) ng gathering, preparing, and me you require to complete partment of Commerce, P.O.	

Box 1450, Alexandria, Virginia 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, Virginia 22313-1450.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.



United States Patent and Trademark Office

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/706,550	11/12/2003	Tony L. Shearer	PST-10902/36	6907	
25006	7590 12/28/2004		EXAMINER		
•	RASS, GROH, SPRINK	DOERRLER, WILLIAM CHARLES			
	Ł CITKOWSKI, PC OODARD AVE	ART UNIT	PAPER NUMBER		
SUITE 400			3744		
BIRMINGHAN	м, MI 48009		DATE MAILED: 12/28/2004		

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 0 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 0 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571) 272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at (703) 305-8283.